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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/736,534

12/17/2003

Chan-Bum Park

46015

4425

1609

7590

08/28/2006

ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P.
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EXAMINER

CASTRO, ANGEL A

ART UNIT

PAPER NUMBER

2627

DATE MAILED: 08/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	
	10/736,534	PARK ET AL.	
	Examiner	Art Unit	
	Angel A. Castro	2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This Office Action is in response to Amendment filed 6/16/06.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Kabasawa et al (U.S. Pat. 5,889,638).

Regarding claims 1 and 7, Kabasawa et al discloses an apparatus (figures 8-16) for converting a rotational movement to a linear movement, comprising:

a lead screw 11, and

a slider (figure 8) having a first protrusion 36 and a second protrusion 39d, which are inserted into the groove of the lead screw 11,

wherein the first protrusion 36 is adapted to substantially tightly fit into the groove of the lead screw whereby the rotational movement of the lead screw is converted into the linear movement of the slider; and

wherein the second protrusion 39d is adapted to remain in the groove of the lead screw even if the first protrusion is moved out of the thread of the lead screw.

Regarding claims 2 and 8, Kabasawa et al discloses that the second protrusion is adapted not to contact the lead screw when the first protrusion is in a normal position (see figure 15).

Regarding claims 3 and 9, Kabasawa et al discloses that the first protrusion and the second protrusion are formed separately such that movement of the first protrusion along the radial direction of the lead screw does not cause the second protrusion to become separated from the screw groove of the lead screw (see figure 13).

Regarding claims 4 and 10, Kabasawa et al discloses that the slider further comprises a first extension portion 9b on which the first protrusion 36 is formed, and a second extension portion 39c on which the second protrusion 39d is formed (see figures 12-14).

Regarding claims 5 and 11, Kabasawa et al discloses that the second extension portion extends in a different direction from the first extension portion (see figures 12-13).

Regarding claims 6 and 12, Kabasawa et al discloses that a support portion adapted to support the second extension portion such that a designated minimum force is required to separate the second protrusion from the groove of the lead screw (see figure 12).

Response to Arguments

3. Applicant's arguments filed 6/16/06 have been fully considered but they are not persuasive.

Applicant asserts in page 8, lines 1-7:

“In the outstanding rejection, the Examiner asserts that the claimed first protrusion reads on element 36 of Kawabasa while the claimed second protrusion reads on element 39d of Kawabasa. However, what is notably missing from the rejection is any assertion that Kawabasa discloses element 36 and 39d as part of a slider; that Kawabasa discloses a slider having a first and second protrusion as required by the present claims.

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Indeed, the rejection fails to list any element of Kawabasa that anticipates the “slider” of claim 1 and 7 and for that reason alone must be withdrawn.”

The Examiner respectfully draw attention to the fact that the head carriage (that slides in the radial direction of the disk) shown in figures 8 and 13 shows the protrusions 36 and 39d as part of the head carriage, therefore anticipating claims 1 and 7.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel A. Castro whose telephone number is 571-272-7584. The examiner can normally be reached on Monday through Thursday, 8 AM to 6 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Angel Castro, Ph.D.